

Emerson's integrated solution moves air control dampers with 3,000 pounds of force

RESULTS

- An all Emerson integrated solution with fully tested components was built
- A sizing report to show assembly would perform to hit time requirements was provided
- Provided a single point of contact for future projects and technical support



APPLICATION

Guillotine damper

CHALLENGE

A manufacturer of turbine machinery components built a new guillotine damper product line for industrial plant air control. The company needed an integrated actuator assembly that would open and close the damper. The actuator assembly had to move a 30-inch stroke damper in less than nine seconds in both directions at 3,000 pounds of force. The manufacturer searched for a supplier that could meet the challenging specifications and provide an integrated assembly.

SOLUTION

Emerson's capability to design and build the integrated actuator assembly entirely with its own products proved highly beneficial to the manufacturer's supply chain team. Emerson's team utilized its proprietary Numasizing tool to identify the appropriate components and provide a sizing report that confirmed the solution would meet the customer's performance requirements. The fully tested solution included ASCO™ Series 562 spool valves, ASCO Series A cylinders, TopWorx™ GO™ Switch proximity sensors, AVENTICS™ rod end alignment couplers, ASCO Numatics™ Flow Controls, KTM K-Ball valves and Stainless-Steel electrical enclosure.

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The drop-in assembly provided highly reliable components, easy installation, and a single point of contact for technical support.